

Solve the given system using substitution and/or elimination. Classify the system as having one solution, no solutions, or infinite solutions. Check your answer both algebraically and graphically.

$$\begin{cases} x + 4y = 6 \\ \frac{1}{12}x + \frac{1}{3}y = \frac{1}{2} \end{cases}$$

**Exercise 1** Classify this system as having one solution, no solutions, or infinite solutions.

**Multiple Choice:**

- (a) one solution
- (b) no solutions
- (c) infinite solutions ✓